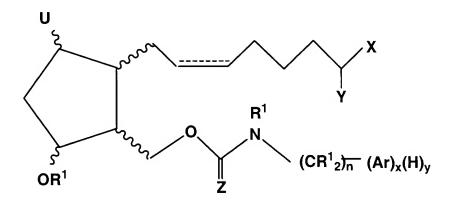
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## **CLAIMS**

1. A method of treating ocular hypertension which comprises administering to a mammal having ocular hypertension a therapeutically effective amount of a compound represented by formula I:



wherein a wavy segments indicate either the  $\alpha$  or  $\beta$  configuration; the dashed bond represents a double bond or a single bond;

wherein W is halogen;

 $Z ext{ is O or S};$ 

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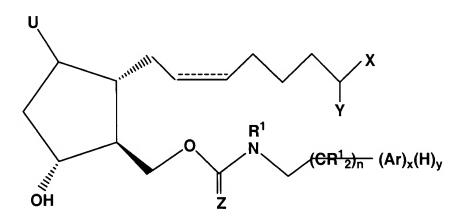
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Ar is selected from the group consisting of aryl or heteroaryl radicals having from 4 to 10 carbon atoms and substituted derivatives of said aryl and heteroaryl radicals; n is 0 or an integer of from 1 to 4; x and y are 1 or 0, provided that when x is 1, y is 0 and when x is 0, y is 1;  $R^1$  is hydrogen or a lower alkyl radical or a substituted lower alkyl radical having up to six carbon atoms; X is selected from the group consisting of -OR<sup>1</sup> and -N( $R^1$ )2; Y is =O or represents 2 hydrogen radicals, Z is S or O; wherein the substituent

on the lower alkyl, aryl or heteroaryl radical is selected from the group consisting of lower alkyl, hydroxy, lower alkyloxy, halogen, trifluoromethyl (CF3), COR1, COCF3, SO2NR1, SO2NH2, NO2 and CN and/or the pharmaceutically acceptable salts of said compounds and/or esters.

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2. The method of claim 1 wherein said compound is represented by formula II:



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wherein n is 0 or 1, 2, 3 or 4; hatched lines at position C-8 and C-11 indicate the  $\alpha$  orientation; and the triangle at position C-12 represents the  $\beta$  orientation.

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- 3. The method of claim 2 wherein Y is = O and X is  $-OR^1$ .
- 4. The method of claim 3 wherein

- 5. The method of claim 4 wherein Z is O.
- 6. The method of claim 4 wherein  $R^1$  is H or methyl.

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- 7. The method of claim 4 wherein Ar is phenyl.
- 8. The method of claim 4 wherein x is 0.
- 9. An ophthalmic solution comprising a therapeutically effective amount of a compound of formula I, as defined in Claim 1, or a pharmaceutically acceptable salt thereof, in admixture with a non-toxic, ophthalmically acceptable liquid vehicle, packaged in a container suitable for metered application.

10. The ophthalmic solution of Claim 9 wherein said compound is a compound of Formula III:

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

- 11. A pharmaceutical product, comprising a container adapted to dispense the contents of said container in metered form; and an ophthalmic solution in said container comprising a compound of formula I as defined in Claim 1, or a pharmaceutically acceptable salt thereof, in admixture with a non-toxic, ophthalmically acceptable liquid vehicle.
- 12. The product of claim 11 wherein said compound is a compound of Formula III:

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$$\begin{array}{c|c} U & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

## 13. The compound represented by formula I:

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wherein a wavy segments indicate either the  $\alpha$  or  $\beta$  configuration; the dashed bond represents a double bond or a single bond;

10 U is = O,

$$_{\mathrm{W}}$$
  $_{\mathrm{H}}$  or  $_{\mathrm{W}}$   $_{\mathrm{H}}$ 

wherein W is halogen;

Z is O or S;

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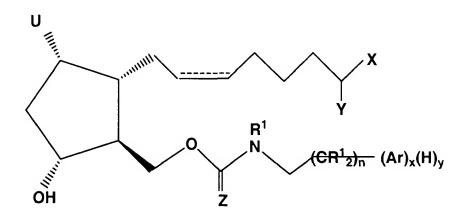
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Ar is selected from the group consisting of aryl or heteroaryl radicals having from 4 to 10 carbon atoms and substituted derivatives of said aryl and heteroaryl radicals; n is 0 or an integer of from 1 to 4; x and y are 1 or 0, provided that when x is 1, y is 0 and when x is 0, y is 1;  $R^1$  is hydrogen or a lower alkyl radical or a substituted lower alkyl radical having up to six carbon atoms; X is selected from the group consisting of  $-OR^1$  and  $-N(R^1)_2$ ; Y is =O or represents 2 hydrogen radicals; wherein the substituent Z is S or O; wherein the substituent on the lower alkyl, aryl or heteroaryl radical is selected from the group consisting of lower alkyl, hydroxy, lower alkyloxy, halogen, trifluoromethyl (CF3), COR1, COCF3, SO2NR1, SO2NH2, NO2 and CN and/or the pharmaceutically acceptable salts of said compounds and/or esters.

## 14. The compound of claim 13 wherein said compound is formula II:

wherein n is 0 or 1, 2, 3 or 4; hatched lines at position C-8 and C-11 indicate the  $\alpha$  orientation; and the triangle at position C-12 represents the  $\beta$  orientation.

## 15. The compound of claim 14 wherein said compound is represented by formula II:



wherein n is 0 or 1, 2 or 4; hatched lines at position C-8 and C-11 indicate the  $\alpha$  orientation; and the triangle at position C-12 represents the  $\beta$  orientation.

- 16. The compound of claim 15 wherein Y is = O and X is  $-OR^1$ .
- 17. The compound of claim 16 wherein

- 18. The compound of claim 17 wherein Z is O.
- 15 19. The compound of claim 18 wherein R<sup>1</sup> is H or methyl.
  - 20. The compound of claim 19 wherein Ar is phenyl.
- 21. The method of claim 1 wherein said compound is selected from the group consisting of

- (Z)-7-((1R,2S,3R)-2-Butylcarbamoyloxymethyl-3-hydroxy-5-oxo-cyclopentyl)-hept-5-enoic acid methyl ester
- (Z)-7-((1R,2S,3R)-2-Butylcarbamoyloxymethyl-3-hydroxy-5-oxo-cyclopentyl)hept-5-enoic acid
  - (Z)-7-((1R,2S,3R,5R)-2-Butylcarbamoyloxymethyl-5-chloro-3-hydroxy-cyclopentyl)-hept-5-enoic acid methyl ester
- 10 (Z)-7-((1R,2S,3R,5R)-2-Butylcarbamoyloxymethyl-5-chloro-3-hydroxy-cyclopentyl)-hept-5-enoic acid
  - (Z)-7-((1R,2S,3R)-3-Hydroxy-5-oxo-2-phenethylcarbamoyloxymethyl-cyclopentyl)-hept-5-enoic acid methyl ester
  - (Z)-7-((1R,2S,3R)-3-Hydroxy-5-oxo-2-phenethylcarbamoyloxymethyl-cyclopentyl)-hept-5-enoic acid
- (Z)-7-((1R,2S,3R)-2-Butylthiocarbamoyloxymethyl-3-hydroxy-5-oxo-cyclopentyl)20 hept-5-enoic acid methyl ester
  - (Z)-7-((1R,2S,3R)-2-Butylthiocarbamoyloxymethyl-3-hydroxy-5-oxo-cyclopentyl)-hept-5-enoic acid.

- 22. The compound of claim 13 wherein said compound is selected from the group consisting of (Z)-7-((1R,2S,3R)-2-Butylcarbamoyloxymethyl-3-hydroxy-5-oxo-cyclopentyl)-hept-5-enoic acid methyl ester
- 5 (Z)-7-((1R,2S,3R)-2-Butylcarbamoyloxymethyl-3-hydroxy-5-oxo-cyclopentyl)-hept-5-enoic acid
  - (Z)-7-((1R,2S,3R,5R)-2-Butylcarbamoyloxymethyl-5-chloro-3-hydroxy-cyclopentyl)-hept-5-enoic acid methyl ester

(Z)-7-((1R,2S,3R,5R)-2-Butylcarbamoyloxymethyl-5-chloro-3-hydroxy-cyclopentyl)-hept-5-enoic acid

- (Z)-7-((1R,2S,3R)-3-Hydroxy-5-oxo-2-phenethylcarbamoyloxymethyl-cyclopentyl)-hept-5-enoic acid methyl ester
  - (Z)-7-((1R,2S,3R)-3-Hydroxy-5-oxo-2-phenethylcarbamoyloxymethylcyclopentyl)-hept-5-enoic acid
- 20 (Z)-7-((1R,2S,3R)-2-Butylthiocarbamoyloxymethyl-3-hydroxy-5-oxo-cyclopentyl)-hept-5-enoic acid methyl ester
  - (Z)-7-((1R,2S,3R)-2-Butylthiocarbamoyloxymethyl-3-hydroxy-5-oxo-cyclopentyl)-hept-5-enoic acid.

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